

IN THE CLAIMS:

Please substitute the following list of claims for the previous list of claims:

1. (currently amended) A battery comprising:
a substrate;
a cathode on the substrate, the cathode having a surface;
a cathode current collector comprising [one or more] a plurality of conducting lines that contact the surface of the cathode, the conducting lines having spacings therebetween;
an electrolyte at least partially extending through the spacings between the conducting lines of the cathode current collector to contact the cathode; and
an anode contacting the electrolyte.

2. (original) A battery according to claim 1 wherein the cathode current collector is between electrolyte and the cathode.

3. (original) A battery according to claim 1 wherein the cathode current collector is absent a non-reactive metal containing material.

4. (original) A battery according to claim 1 wherein the cathode current collector comprises aluminum, cobalt, copper, nickel, titanium, tantalum, vanadium, zirconium, and alloys and compounds mixtures thereof.

5. (original) A battery according to claim 1 wherein the conducting lines comprise elongated prongs extending from a base prong.

6. (original) A battery according to claim 1 wherein the conducting lines contact less than 80% of the area of the surface of the cathode.

7. (original) A battery according to claim 1 wherein the substrate comprises mica.

8. (original) A battery according to claim 1 wherein the cathode comprises lithium cobalt oxide.

9. (original) A battery according to claim 1 comprising an anode current collector contacting the anode.

10. (withdrawn) A method of fabricating a battery, the method comprising:
forming a substrate;
forming a cathode on the substrate, the cathode having a surface;
forming a cathode current collector comprising one or more conducting lines that contact the surface of the cathode;
forming an electrolyte at least partially extending through the conducting lines of the cathode current collector to contact the cathode; and
forming an anode contacting the electrolyte.

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11. (withdrawn) A method according to claim 10 comprising forming the cathode current collector between electrolyte and the cathode.

12. (withdrawn) A method according to claim 10 comprising forming one or more conducting lines having elongated prongs extending from a base prong.

13. (withdrawn) A method according to claim 10 comprising forming the conducting lines by placing a mask on the substrate and depositing material through the openings of the mask.

14. (withdrawn) A method according to claim 13 comprising depositing the material by physical vapor deposition.

15. (withdrawn) A method according to claim 14 comprising depositing material comprising a metal containing material.

16. (withdrawn) A method according to claim 10 comprising forming conducting lines that contact less than 80% of the area of a surface of the cathode.

17. (withdrawn) A method according to claim 10 comprising forming a substrate comprising mica.

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18. (withdrawn) A method according to claim 10 comprising forming a cathode comprising lithium cobalt oxide.

19. (withdrawn) A method according to claim 10 comprising forming an anode current collector contacting the anode.

20. (new) A battery comprising:

a substrate;

a cathode having a surface on the substrate and an opposing surface;

a cathode current collector comprising one or more conducting lines contacting the opposing surface of the cathode;

an anode facing the opposing surface of the cathode and the cathode current collector; and

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an electrolyte between the cathode current collector, cathode and anode, the electrolyte at least partially extending through the one or more conducting lines of the cathode current collector to contact the opposing surface of the cathode.

21. (new) A battery according to claim 20 wherein the cathode current collector comprises a plurality of conducting lines that contact the surface of the cathode, the conducting lines having spacings therebetween, and wherein the electrolyte at least partially extends through the spacings between the conducting lines of the cathode current collector to contact the cathode.

22. (new) A battery according to claim 20 wherein the cathode current collector comprises aluminum, cobalt, copper, nickel, titanium, tantalum, vanadium, zirconium, and alloys and compounds mixtures thereof.

23. (new) A battery according to claim 20 wherein the conducting lines comprise elongated prongs extending from a base prong.

24. (new) A battery according to claim 20 wherein the substrate comprises mica.

25. (new) A battery according to claim 24 wherein the cathode comprises lithium cobalt oxide.

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26. (new) A battery comprising:
a substrate;
a cathode having a surface on the substrate and an opposing surface;
a cathode current collector comprising a pattern of conducting lines contacting the opposing surface of the cathode;
an anode; and
an electrolyte between the cathode and anode.

27. (new) A battery according to claim 26 wherein the pattern of conducting lines comprise one or more of meandering lines, circular lines, random lines, radial lines, horizontal lines, vertical lines and diagonal lines.

28. (new) A battery according to claim 26 wherein the pattern of conducting lines have spacings therebetween, and wherein the electrolyte at least partially extends through the spacings.

29. (new) A battery according to claim 26 wherein the substrate comprises mica.

30. (new) A battery according to claim 26 wherein the cathode comprises lithium cobalt oxide.